IN THE CLAIMS:

Please cancel claim 3 without prejudice.

1. (Original) A process of synthesizing semiconductor fibers, the steps comprising: forming a catalytic metal on a substrate, placing the combination in a pressure chamber, adding gaseous reactant, applying sufficient microwave energy to raise the temperature in the chamber to a point above the melting point of the metal and continuing the process until fibers of the desired length are formed.

2. (Original) The process of claim 1, wherein the substrate is silicon, the catalytic metal is gallium or indium, and the gaseous reactant is hydrogen and the fibers are silicon.

3. (Canceled).